# IN THE UNITED STATES DISTRICT COURT FOR THE WESTERN DISTRICT OF NORTH CAROLINA STATESVILLE DIVISION

CASE NOS. 5:15CV57-RLV;

3:15CV211-RLV

Plaintiffs,
v. BOSTON SCIENTIFIC CORPORATION, Defendant
MARTHA CARLSON, Plaintiff,
v.
BOSTON SCIENTIFIC CORPORATION

**Defendants** 

PLAINTIFFS OBJECTIONS AND COUNTER DESIGNATIONS TO DEFENDANT BOSTON SCIENTIFIC'S COUNTER DEPOSITION DESIGNATIONS OF DENNIS MILLER, MD, TAKEN NOVEMBER 15, 2013 and MAY 13, 2014

<b>BSC Counter Designation</b>	Objection	Plaintiffs Counter Designation to BSC Counter Designation
dm111513, (Page 182:8 to 182:19)  182  8 Q All right. It is your position as you sit here today  9 that polypropylene mesh is still appropriate for 10 permanent implant in the female pelvic floor?  11 A Polypropylene has been used for more than 30 years 12 and we have seen good clinical results. I have my 13 own outcomes, my own experience, those of my mentors, 14 hernia surgeons for their use in the abdominal 15 hernias, and we've seen its use in the pelvic floor	182:8-182:19 FRE 403, Cumulative, Nonresponsive	Designation

16 for many, many years and myself, as do many other 17 urogynecologists, we do still feel, we continue to 18 perform those procedures as we always have because of 19 the benefits that we can afford our patients. dm111513, (Pages 183:5 to 184:2) 183 5 Q I'm not asking you about anybody other than yourself. 6 As the person who brought the concept that became 7 Pinnacle to Boston Scientific, you as you sit here 8 remain of the belief that polypropylene mesh is 9 appropriate for permanent implant in the female 10 pelvis? 11 A Sure. Because it seems as if you don't want me to be 12 talking about the fact that there is broad use among 13 board certified urogynecologists for — in other 14 words, that there is less controversy among my 15 colleagues and that's the basis upon which I am 16 making that decision. Therefore, it's the basis upon which I'm answering your question. 18 Q We can ask it again. I'm asking you, Doctor, as the 19 person who brought the concept that became Pinnacle 20 to Boston Scientific, you remain of the belief that tat 21 polypropylene mesh is appropriate to be permanently 22 implanted in the female pelvis? 23 A With long experience to back that up, yes. 24 Q And the interesting thing about the long experience 184 1 that you have repeatedly gone to is to cite 2 experience from hernia mesh? dm111513, (Page 184:4 to 184:7) 183:5-183:17 FRE 403, Cumulative		,
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dm111513, (Page 184:4 to 184:7) 184:4-184:7		
	dm111513, (Page 184:4 to 184:7)	184:4-184:7

184	FRE 403
4 A No. When I say long experience, I'm	Cumulative
referring to my	Cumulative
5 own personal experience and the	
experience of the	
1 · ·	
6 large numbers of surgeons in my field.	
When I said	
7 long experience, that was what I was	
referring to.	101.00.107.0
dm111513, (Page 184:20 to 184:24)	184:20-187:2
184	FRE 401, 402
20 Q That's where I'm getting at, Doctor. As	403, 701, 702
you sit	
21 here, you don't know of an expert, don't	
have a	
22 consultation, don't have an investigation	
as to the	
23 breakdown over time of polypropylene	
mesh in the	
24 female pelvis?	
dm111513, (Pages 186:7 to 187:2)	184:20-187:2
186	FRE 401, 402
7 A I attend lectures by material scientists	403, 701, 701
and by	Nonresponsive
8 experts in the field, and one of our most	<b>.</b>
trusted	
9 members is Pam Moalli of the University	
of	
Pittsburgh, and my understanding is that	
either the	
11 degradation is a misunderstanding of	
what's happening	
on the surface of the polypropylene or	
one thing that	
13 I can know for myself clinically is that the	
14 degradation is not clinically relevant	
because I've	
15 had long experience, and that's where I	
think hernia	
16 surgeons would then come in is unless	
you'd propose	
17 that it only degrades in the pelvis and	
somehow does	
18 not degrade elsewhere, but that's been	
all of	
19 those things add up.	
20 All of this experience, 30 years of	
experience	
21 and our own experience, when I'm	
talking about in the	

22 pelvic floor because in the University of Wisconsin, 23 they were doing it in the 1980s, has taught all of us 24 surgeons, myself included, so I am answering for 187 1 myself, that polypropylene degradation is not a 2 clinically relevant problem.  dm052314, (Page 349:1 to 349:13) 349 1 Q MUS. That's a question of COI is conflicts of 2 interest, correct? 3 A Correct. 4 Q When you were asked to join, did you have to reveal 5 any conflicts of interest or potential conflicts of 6 interest? 7 A Yes. We actually had to go through it because the 8 initial view of some was that my since my 9 royalties are specific to Pinnacle and Uphold, that I 10 wouldn't. And I just felt that it was best to 11 disclose broadly. And so, yes, I provided the 12 disclosure that I receive royalties on a not on 13 slings but on a prolapse mesh. So yes.  dm052314, (Page 368:3 to 368:11) 368 3 What were you talking about? 4 A There was a local doctor by the name of Christopher 5 Walsh who was getting pushback he was getting 6 pushback from his hospital on the use of slings 7 because there was just all of this vague information. 8 And he already took this to his employer and said, 9 "Look, slings are the standard of care." 10 That's what I'm remembering, I 11 think I think there were others, though.		
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6 pushback from his hospital on the use of slings 7 because there was just all of this vague information. 8 And he already took this to his employer and said, 9 "Look, slings are the standard of care." 10 That's what I'm remembering. I	0 01	
slings 7 because there was just all of this vague information. 8 And he already took this to his employer and said, 9 "Look, slings are the standard of care." 10 That's what I'm remembering. I		
7 because there was just all of this vague information. 8 And he already took this to his employer and said, 9 "Look, slings are the standard of care." 10 That's what I'm remembering. I	_	
information.  8 And he already took this to his employer and said,  9 "Look, slings are the standard of care."  10 That's what I'm remembering. I	9	
8 And he already took this to his employer and said, 9 "Look, slings are the standard of care." 10 That's what I'm remembering. I	J	
and said, 9 ''Look, slings are the standard of care.'' 10 That's what I'm remembering. I		
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9 "Look, slings are the standard of care." 10 That's what I'm remembering. I	_ = = = = = = = = = = = = = = = = = = =	
10 That's what I'm remembering. I		
o l	/ 8	
11 think I think there were others, though.	8	
	11 think I think there were others, though.	

dm052314, (Page 381:6 to 381:10) 381 6 Q Here's a statement that I've heard you say several 7 times, so let's flesh it out. "Used by 99 percent of 8 AUGS members." 9 MR. ANIELAK: Do you see it on the 10 THE WITNESS: I do see that on	381:6-10 FRE 401, 402, 403	
the page.  dm052314, (Page 382:1 to 382:12) 382  1 Q And that statement that you keep using comes from a 2 survey of AUGS members? 3 A The statement actually comes from being a member 4 of the society and being aware of the practices 5 in Milwaukee and Wisconsin, throughout the 6 country. 7 It's so common knowledge. The survey 8 allows us to state that obvious fact. And if someone 9 wants to just randomly challenge it, we've at least 10 got some support to what is just common knowledge. 11 It is the standard of care throughout 12 the world.	382:1-12 FRE 401, 402, 403, 701, 702	dm052314, (Page 382:13 to 382:15)  382  13 Q And what you're talking about is the use of sling 14 mesh? 15 A Right. That's what this is about.  dm052314, (Pages 383:9 to 384:7)  383  9 When you did your edits on the position 10 statement, you did not have a reference for the 11 statement: "99 percent of AUGS" members use MUS 12 midurethral slings. 13 A That was a comment, not an edit. And yeah, I did not 14 have the specific reference for both of those 15 statements, that over 3 million slings have been used 16 worldwide. You know, they're obvious statements 17 that we all know, but the reference I didn't have at 18 my fingertips. 19 Q Right. It says, "Over 3 million MUS" that's 20 midurethral slings "have been placed worldwide," 21 right? 22 A Yes.

		22 0 114 13
		23 Q "And these
		procedures are used by
		greater than
		24 99 percent of AUGS
		members.''
		384
		1 And you say,
		''I don't have a reference
		2 for this. Charlie, can
		you add it?"
		3 A Right.
		4 Q Now, the over 3
		million MUS placed
		worldwide
		5 A Um-hmm.
		6 Q how is that derived?
		7 A I don't know.
dm052314 (Pages 458.0 to 461.16)	Boston	
dm052314, (Pages 458:9 to 461:16) 458	Scientific has	Plaintiffs adopt and
1		incorporate their counter designations, if any.
9 Q Dr. Miller, please introduce yourself to	previously	designations, if any.
the jury.	designated	
Tell the jury a little bit about yourself.	this testimony	
11 A My name is Dennis Miller. I'm a	and Plaintiffs	
urogynecologist in	adopt and	
12 Milwaukee, Wisconsin.	incorporate	
13 Q And tell the jury a little bit about your	their	
personal	objections as	
14 personal life. Are you married? Do you	set forth in	
have kids?	their counter	
15 Tell me a little bit about your your	designations,	
personal	if any.	
16 life.		
17 A I am married. I have three daughters,		
and I live in		
18 a suburb of Milwaukee called Whitefish		
Bay.		
19 Q And how did you what was your drive		
to become a		
20 physician? How did you ultimately		
decide to enter		
21 that field?		
22 A Well, it was the nobility of it. I've		
always wanted		
23 to be a physician. In fact, there's a		
picture of me		
24 at four years old we didn't have any		
doctors in		
459		
1 our family. We had all salesmen in our		
family.		
	i	ĺ

And they always wanted a doctor, so my mother put me into Dr. Kildare shirts at four years old. And I think I've known ever since 4 then that that's what I would be. 6 Q We're going to talk a little bit about your educational background and your medical practice, but before we do that, orient the jury about your role with Boston Scientific and its medical devices in terms of the Pinnacle device. 10 11 A Yes. I've been a urogynecologist for 25 years or so, and I learned prolapse repair from 12 Lester Ballard at the Cleveland Clinic and learned mesh repairs from Dr. Tom Julian at the University of Wisconsin in the 15 1980s. 16 So over this long experience, I've **17** been able to see clearly some ideas, and one of the ideas that I've had was for a fixation 18 device for how 19 to get mesh into the deepest part of the vagina. 20 So I brought that idea to Boston Scientific, and they decided that they 21 would create 22 this fixation device. And I subsequently, then, 23 worked with a series of physicians and engineers at iterating that device that eventually became known as 460 Pinnacle and Uphold, which are fixation devices that are in this category that we're talking about. 3 Q Okay. And we're going to talk in detail

about your

process, 5 bi

bit

involvement with Boston Scientific in that

but before we do that, tell the jury a little

about your educational background, where did you go to school, when did you graduate, that sort of thing. 8 A I went to the Medical College of Wisconsin and -- for medical school and did residency at the Medical 10 College of Wisconsin affiliated hospitals. I did a fellowship in 11 urogynecology 12 in -- technically at that time it was called Advanced Pelvic Surgery in 1988 and 1989 before 13 moving back to Milwaukee to become the first urogynecologist in the area. 15 16 Q And then since completing that fellowship in '88 and '89 and moving back to Milwaukee, have you been in 18 private practice? 19 A I've been in private practice since 1989 with a large 20 multidisciplinary group. 21 Q And has the nature of your practice been about the same since 1988 -- '88 and '89? 23 A Yes. I have restricted my practice to the treatment of pelvic floor disorders, which are essentially 461 incontinence of urine and prolapse of the pelvic 2 organs. And I take referrals from doctors throughout 3 Wisconsin for that. 4 Q Tell the jury what pelvic organ prolapse is. 5 A Pelvic organ prolapse is a loss of support of the vagina and the organs that are attached to 6 it. 7 It results in essentially the vagina 8 trying to turn inside out. If you think of it like 9 the finger of a glove, prolapse is where the vagina

	T	
and the organs that are associated with it		
begin to		
11 just essentially turn inside out.		
12 And it causes this really		
significant		
distress when sitting, when standing,		
when trying to		
walk. It makes sex very difficult, and it's		
a source		
15 of great embarrassment. Can be		
associated with a lot		
16 of urinary and bowel complaints as well.		
	Boston	Disintiffs adopt and
dm052314, (Pages 462:3 to 464:22)		Plaintiffs adopt and
462	Scientific has	incorporate their counter
3 Q Have you been involved with training	previously	designations, if any.
other	designated	
4 urogynecologists in the area in these in	this testimony	
treating	and Plaintiffs	
5 these disorders?	adopt and	
6 A Yes. Well, you know, I was the first	incorporate	
urogynecologist	their	
7 in the area. And I was responsible for	objections as	
many years	set forth in	
8 for teaching both residents and private	their counter	
practice	designations,	
9 physicians the standards of care in for	if any.	
these		
10 disorders.		
11 Q In terms of professional societies, are		
there		
professional societies of urogynecologists?		
13 A Yes. The main society of		
urogynecologists is called		
14 the American Urogynecologic Society,		
AUGS. But we		
15 also have our International		
Urogynecologic		
16 Association, or IUGA, and the		
International		
17 Continence Society.		
And then on the urology side we		
have		
19 the Society for Urodynamics and Female		
Urology.		
20 Q And do you belong to those societies?		
21 A I don't belong to the urology society at		
this time,		
but I do belong to the gynecologic society.		
23 Q And what is the role of those societies?		
What do		
24 they do?		
	1	l .

463	
1 A They provide education for both general	
OB/GYNs	
2 and for urogynecologists. And they	
provide a	
3 both a virtual and a real meeting place for	
4 specialists in the treatment of	
incontinence and	
5 prolapse so that we can get together both,	
you know,	
6 online, in writing, with video	
conferencing, as well	
7 as in our meetings.	
8 And so we we're involved in	
in	
9 setting the standards of care for the	
treatment of	
10 these disorders.	
11 Q And have you had leadership positions in those in	
12 those societies?	
13 A I've not had leadership positions in those	
societies,	
14 but I have been selected by the leadership	
to	
participate in committees. Like I just got	
off of a	
three-year stint with the scientific	
program	
17 committee.	
18 Q Okay. Any other committees that	
you've been a part	
of selected by the leadership of those	
organizations?	
20 A Well, I was I was selected to be the	
chair of the	
21 inaugural year of the mesh special	
interest group.	
22 Q And tell the jury, what is that? What was the mesh	
23 special interest group of the AUGS	
society?	
24 A Well, special interest groups in general	
are	
464	
1 becoming increasingly popular in all	
coninting	

societies.

and exchange

2 It's a more informal group where
 physicians can get
 together and discuss current therapies

4 ideas and is a good resource for		
educational venues		
5 as well.		
6 Q Okay. Have you published in the area of		
transvaginal		
7 mesh and stress urinary incontinence?		
8 A Because of my role and private practice		
nature, I've		
9 had limited publications. But I've		
published on the		
10 office management of stress urinary		
incontinence,		
11 I've published a five-year outcome study		
of prolapse		
repairs, and I recently published a paper		
on informed		
13 consent for proper informed consent		
for vaginal		
14 mesh.		
15 (Exhibit 1037 marked for		
identification.)		
16 BY MR. PIRTLE:		
17 Q Dr. Miller, I've marked as Deposition		
Exhibit		
18 No. 1037 a presentation that's titled		
"Overview of		
19 Boston Scientific's Pelvic Floor Products		
and		
20 Risk-Benefit Assessment" in April of		
2011.		
Do you see that?		
22 A I do.		77.4.400
dm052314, (Pages 465:17 to 477:2)	Boston	Plaintiffs adopt and
465	Scientific has	incorporate their counter
17 What are the surgical treatment	previously	designations, if any.
options that for pelvic organ prolapse?	designated	
19 A Well, this is a very important aspect to	this testimony	
all of our	and Plaintiffs	
discussion because we treat prolapse in a	adopt and	
variety of	incorporate	
21 ways. For myself, I use all three of these	their	
methods	objections as	
to treat prolapse, and it's all about	set forth in	
patient	their counter	
selection and who the patient is and who	designations,	
you are as a	if any.	
24 surgeon.		
466		
1 And so the first approach is the		
2 so-called native tissue repair, which is the		
anterior		
	I	l

and posterior repair, which is lifting of the vaginal 4 tissues. It's been around since about 1917, with 5 suspension of the vagina. And generally, if the woman has a uterus, it involves 6 performing a hysterectomy as well. 8 Q And are there limitations to that type of surgery in terms of drawbacks? 10 A Yeah. Every textbook in OB/GYN dating back even into the '50s has referred to the unfortunate degree of 12 failure. You know, when you talk to women who are older, they'll tell you that their physicians 13 told 14 them that the repairs would only last five years. 15 And they'll be familiar, "Oh, yes, my mother had that 16 done two, three, four times." **17** And so one of the main limitations of 18 the native tissue repair that mean we can't use it in 19 every single patient is that there's substantial 20 failure. 21 And the other aspect to it is, you 22 know, there's a lot of suture entrapment issues, and 23 there's binding that happens. In some studies the painful intercourse rates are 50 percent 24 of the 467 patients. And so there's -- there is limitations 2 to any surgery, of course. 3 And I performed native tissue repair 4 in a substantial portion of my patients, but those are the limitations to it. 6 Q And then the second bullet point is abdominal

colposacropexy. Tell the jury what that is. 8 A It's important to suspend the vagina at its deepest part. That's -- that's really the -- the center tent 10 pole of your tent. And the colposacropexy is an attempt to fixate the vagina inside the abdomen going 12 from above. 13 The problem is the vagina won't reach 14 the fixation point, so you generally have to add --15 as a part of this operation, you always have to add a 16 graft material of some type. Polypropylene is currently considered the best, and so it is 17 the most 18 common graft used. So polypropylene mesh is 19 generally used to suspend the vagina. 20 But, again, you have to move the 21 colon, you have to move the rectum and the bladder, and you have to expose the sacrum in 22 order to fixate 23 this piece of mesh from the vagina to the sacrum. 24 Q So how does abdominal -- abdominal sacrocolpopexy 468 differ from transvaginal mesh in bullet point 3? 2 What's the difference between those two? 3 A The difference is the approach. 4 Mesh is placed generally 5 laparoscopically or robotically from above after the performance of a hysterectomy, versus the transvaginal mesh is taking that same polypropylene mesh and inserting it transvaginally. 9 Q And are there other limitations or drawbacks that you 10 have to consider before performing an abdominal 11 sacrocolpopexy?

12 A Well, it's a good surgery as well, as is native 13 tissue repair. That's why I perform all three. 14 But the limitations are, for one 15 thing, the complexity of the operation; the very act of having to move the colon and the rectum and the bladder. And there's a 1 percent **17** incidence of bowel obstruction because the mesh is inside of 18 the 19 abdomen. 20 Q And then the third bullet that you identify on the surgical options says "Transvaginal" --"Transvaginal 22 (vaginal mesh)." 23 Tell the jury what that means. 24 A Well, that means taking that same polypropylene mesh 469 or -- you know, in -- other grafts can be used, 2 biological grafts can be used, but taking a graft, 3 generally polypropylene, and fixing it from a 4 transvaginal approach. 5 So you don't need to move those other organs in order to get to the place where you want to 7 fixate -- where you want to fixate the mesh. So it's another one of the options for doing it. 9 Q And both the abdominal sacrocolpopexy and the 10 transvaginal mesh involve using a graft or a mesh material of some kind? 12 A Yes. 13 Q And what's the purpose of that? What function does 14 the mesh itself provide? Why is it used in those 15 surgeries? 16 A Well, the goal -- the goal of it is to attempt to

increase the durability of that repair because, you know, what we've -- what we've known for many years, 19 and I've seen in my own practice even, is that you --**20** you can't expect all these repairs to -- to last over 21 time. 22 And the -- the introduction of mesh is 23 about improving the durability of the repair. 24 Q Has -- transvaginal mesh, has it gone through 470 developments over time? 2 A Yes. Transvaginal mesh has been around, as I said, since the 1980s. And I first saw it when performed by Dr. Tom Julian in Madison, who was one of the early proponents and one of the early investigators 6 to publish on it. 7 And for many years we would cut our 8 mesh and fixate it with suture or with the Capio device. There are a variety of ways of putting 10 them -- putting the mesh in place. 11 But one of the challenges in doing 12 it -- and this is where the devices came in -- is 13 you're trying to perform surgery through what is 14 essentially a very small opening. The vaginal 15 opening -- to enter through the vaginal opening is difficult, particularly because the most 16 17 important part of the repair is something that's 5 or 18 6 inches away deep inside. And so that's where the 19 evolution came in, how can we have a more effective fixation? How

	<u> </u>
21 can we do a better job of providing a way	
to deliver	
the mesh into the play into where we	
want it to	
23 be?	
24 Q I want to flesh this out a little bit more.	
471	
1 If you could turn over to slide 19	
and	
2 explain to the jury what this demonstrates	
in terms	
3 of the evolution of vaginal mesh.	
4 A When you look at the top left, the mesh	
sheets,	
5 that's that's how mesh came. And so	
mesh was then	
6 introduced in a variety of ways.	
7 And by 2000, surgeons began to -	
- And by 2000, surgeons began to	
8 beginning in Australia and Italy and	
France and the	
9 U.S., particularly Tom Julian, began to	
customize	
10 those shapes.	
But if you look at them, they	
were all	
sort of irregular, and there was a lack of	
13 reproducibility. And so there was this	
very	
14 inconsistent way of fixing the mesh into	
place and	
inconsistent shapes to the mesh going	
through what is	
16 this difficult opening.	
And then on the bottom	
18 Q So before we go to the bottom, so on the	
top when	
we these sheets of mesh, the square	
sheets, and	
20 then in the middle of the page the one	
that's cut to	
shape, are these polypropylene sheets of	
mesh?	
22 A Yes. The ones you see here are	
polypropylene.	
23 Q And so was polypropylene mesh being	
used to treat	
pelvic organ prolapse back in back this	
far?	
472	
L Company of the Comp	l l

1 A You know, my practice goes back to 1989, and so it's hard for me to comment about prior to 1989. But yes, 3 certainly throughout my entire career I've been aware of surgeons using grafts, and particularly polypropylene, to reinforce their repairs. 6 Q And then take the jury, then, from the first two --7 the top, the three pictures on the top, to the 8 bottom. 9 What's the advancement that was made, 10 then, after 2004 when we start talking about 11 first-generation kits? 12 A Well, surgeons in general started to talk together 13 about ways of improving the ability to fixate the 14 mesh, to deliver it. 15 And we started talking about, you 16 know, we know where we want it to go and we know what **17** we want to do; we want to fix it. But just how do 18 you do it? We need a new hammer; we need a new 19 screwdriver. **20** And industry became involved with 21 their engineers at creating fixation devices. And 22 the first generation was to use -- can I grab this? 23 Q Sure. 24 A -- to use these trocars and to pass them through the skin and through the buttock area and just lateral to the vagina and have it enter the vagina at 2 its 3 topmost place. And that really improved 4 substantially our ability to get mesh into place. 5 But, you know, we're -- we're always

trying to move forward. And one of my thoughts was, Can we do this without passing these trocars? And so could we fixate the mesh by going in through the same incision and yet still reach that area 5 or 6 9 inches 10 away? 11 Q So the -- what is the device that you're holding in 12 your hand? 13 A This is a needle that is from a Prolift device. 14 Q Okay. And that was part of a device that came on the market prior to the Pinnacle and Uphold 15 devices? 16 A That is correct. (Exhibit 1038 marked for 17 identification.) 18 BY MR. ANIELAK: 19 Q I've marked as Deposition Exhibit No. 1038 a 20 presentation that has your name on the outside of it. 21 Do you see that? 22 A Yes. 23 Q And this was a presentation that you made in 2007? 24 A Yes. 474 1 Q And I want to talk about a couple of your slides in 2 here to flesh out this discussion regarding the medical devices that were on the market prior to the 4 Pinnacle device, okay? 5 If you turn over to slide 4, which is 658. So in terms of the history of the development of medical devices that treat pelvic organ prolapse, tell the jury what these devices are. 9 A Apogee/Perigee was the first device to market; 10 Prolift second; and Avaulta third, which are fixation

11 devices to improve the way that we get	
the mesh to	
12 the desired fixation spots and to secure it	
down.	
13 And so they're just examples of	
using	
14 those needles. All relatively similar	
needle	
15 techniques to introduce the mesh.	
16 Q And did these devices use polypropylene	
mesh?	
17 A Yes.	
18 Q If you turn over to the next slide.	
19 And what what are you	
conveying	
20 here when you're talking about the	
current lift kit	
21 advantages?	
22 And before you get into more	
detail,	
you're talking about the devices that were	
on the	
24 market prior to Pinnacle; is that right?	
475	
1 A Apogee/Perigee, Prolift, and Avaulta.	
2 Q And what were some of their	
advantages?	
3 A Well, for years, surgeons had been	
introducing mesh	
4 with no real reproducibility and with a	
variety of	
5 different fixation devices.	
6 The so-called lift kits provided a	
way	
7 to reproducibly get the mesh into place,	
and it	
8 provided an amount of adjustability	
because of the	
9 wings that you don't have when you just	
sew it into	
10 place; you're locked into the location	
where you sew	
11 it in.	
12 And it avoids sutures which	
encircle	
13 the tissues and can compress the tissues	
and cause	
14 ischemia. And the suture the suture	
fixation of	
15 the sacrospinous ligament is associated	
with	

16 6 percent incidence of buttock pain. And so it **17** allows you to avoid those sutures and allows you to 18 easily get to the location you wanted to get to. 19 Q When you turn to the next page, you discuss some of the limitations of the devices that were on the 21 market prior to Pinnacle; is that right? 22 A Yes. 23 Q And what were some of those limitations of the 24 medical devices that were on the market to treat 476 prolapse prior to Pinnacle? 2 A Well, they were good -- they were good devices, and they were being used safely. I had good experience with them. But it did strike me that you're passing these needles through anatomy that you in proximity to neurovascular structures. 6 And so I saw the advantage of being able to introduce the mesh directly through the vaginal incision. 9 Q So tell the jury why passing the needles through 10 unfamiliar anatomy, why is that a bad thing? 11 A Well, it's not a bad thing. 12 Q Okay. Tell the jury what the limitation is of that 13 technique. 14 A In medicine, less is more, and you always want to move forward to increasing simplicity. And passing these needles adds another step going 16 through 17 tissues that have nerves and blood vessels in them.

And while -- while that's a path that we

generally good at doing, if I can do it

18 are 19

directly

20 through the incision, I'm going to I'm		
going to		
21 want to do that.		
directly		
23 through the incision as the Pinnacle		
device does?		
24 A I'm not passing through those		
structures. I'm		
477		
1 bypassing them. I can directly visualize		
the		
2 structure I want to fixate to.		
dm052314, (Pages 477:20 to 478:23)	Boston	Plaintiffs adopt and
477	Scientific has	incorporate their counter
20 Q And did you come up with an idea to	previously	designations, if any.
avoid some of	designated	
21 these limitations that you identified with	this testimony	
the	and Plaintiffs	
22 current devices that were on the market?	adopt and	
23 A You know, what I did is combine	incorporate	
existing	their	
technologies. The Capio device has been	objections as	
used for	set forth in	
478	their counter	
1 years to fixate mesh into place.	designations,	
2 And I provided a way to fixate	if any.	
the	ii uiij t	
3 mesh through the sacrospinous ligament		
at that true		
4 level 1 support by simply introducing the		
instrument		
5 under direct visualization directly to the		
ligament		
6 and then being able to use only a short		
wing of		
O		
7 support and no sutures.		
8 Q Okay. And did explain to the jury		
physically how		
9 you were able to avoid the trocars.		
And maybe you can demonstrate		
with the		
11 devices that are there. How did you		
ultimately avoid		
12 using the trocars?		
13 A So one of the difficulties in performing		
this		
surgery and this gets technical, but is		
you		
15 have to pass it up and then retrieve it		
back, again,		

16 through this narrow tube at a distance		
away from you.		
17 So if you're coming from the		
outside		
18 in, you've got a wide arc to get up, and		
that		
19 requires a wide arc to get back.		
20 What this utilized is this existing		
21 technology to simply go to the space and		
pass it, and		
22 then you can bring that mesh back from		
the fixation		
23 point directly because of the size and the		
shape.		
dm052314, (Pages 480:5 to 482:20)	Boston	Plaintiffs adopt and
480	Scientific has	incorporate their counter
5 Q So the Polyform mesh that ultimately	previously	designations, if any.
became the mesh	designated	acoignations, it any.
6 that was in Pinnacle, was that already	this testimony	
being marketed	and Plaintiffs	
7 at the time that Pinnacle came on the	adopt and	
market?	incorporate	
8 A Polyform was being used by surgeons	their	
throughout the	objections as	
9 world.	set forth in	
10 Q And that particular mesh for the	their counter	
Pinnacle device was	designations,	
11 made of polypropylene?	if any.	
12 A Correct.	<i>j</i> .	
13 Q And had polypropylene been used for		
many years by		
your gynecologic surgeons to repair		
pelvic organ		
15 prolapse?		
16 A That is correct.		
17 Q And that was the slide that we looked at		
earlier		
that indicated that polypropylene mesh		
had been used		
19 since at least the 1980s?		
20 A Correct.		
21 Q So you came up with this idea to use the		
Capio device		
and to deliver polypropylene mesh and		
avoid the		
23 trocars.		
Tell the jury essentially, then,		
the		
481		
1 process. When you had the idea, what		
happened? How		

2 did you ultimately get hooked up with	
Boston	
3 Scientific?	
4 A Well, after this concept was realized in	
my mind, I	
5 presented the concept to Boston Scientific,	
that they	
6 could make a device that would do this.	
They could	
7 create a fixation device that would take	
their mesh	
8 and introduce it in a better way.	
9 So I presented that idea to them	
in	
10 August of 2005. And after that time, I	
agreed to	
11 work with a series of doctors and	
engineers at	
12 iterating what eventually became as a	
device, the	
13 Pinnacle and Uphold device.	
14 Q And how did you work with those	
engineers and	
physicians to essentially develop what	
became the	
16 Pinnacle device?	
17 A Well, I described and drew my concept	
for mesh	
18 fixation to them, and then the engineers	
would go to	
a prototyping company and iterate it and	
create	
20 essentially a prototype of it.	
We then had a series a whole	
series	
of many labs where we would implant it	
into cadavers	
and see the advantages and disadvantages	
of that	
24 iteration.	
482	
1 And then the engineers would go	
back	
2 and reprototype it. And then eventually,	
based on	
3 what other surgeons were saying that they	
wanted and	
4 how they saw this best, and then it would	
get	
5 reiterated again until it became in its final	
design	
ucsign	

		T
6 freeze.		
7 Q So approximately how long did that take		
from the time		
8 that you went to Boston Scientific until		
Pinnacle		
9 ultimately reached the market?		
10 A Well, the first Pinnacle was performed		
January 2008,		
so that's two and a half years for that.		
12 Q And then as part of your bringing the		
idea to Boston		
13 Scientific, did you essentially negotiate a		
contract		
with Boston Scientific for your idea?		
15 A I did. I negotiated to have a royalty		
because this		
16 became a device that they were then		
going to be able		
17 to sell, and so		
18 Q And did you ultimately receive royalties		
for the		
19 Pinnacle device?		
20 A I did.	<b>D</b> (	DI : (100 7 7 7
dm052314, (Pages 491:16 to 492:9)	Boston	Plaintiffs adopt and
491	Scientific has	incorporate their counter
16 Q And in terms of your overall experience	previously	designations, if any.
with	designated	
17 the Pinnacle device in terms of it	this testimony	
successfully	and Plaintiffs	
18 treating pelvic organ prolapse, what has	adopt and	
been	incorporate	
19 your experience?	their	
20 A You know, I've now had five years of	objections as	
experience with	set forth in	
21 the device. And I see all of my patients	their counter	
back, and	designations,	
then over time, you see less of them. And	if any.	
we have	J <del>-</del>	
23 had only the expected amount of		
complications that		
24 you get with any surgical procedure and		
had really		
had really 492		
had really 492 1 good outcomes with really satisfied		
had really 492 1 good outcomes with really satisfied patients by and		
had really 492 1 good outcomes with really satisfied patients by and 2 large.		
had really 492 1 good outcomes with really satisfied patients by and 2 large. 3 Q In terms of successfully treating pelvic		
had really 492 1 good outcomes with really satisfied patients by and 2 large. 3 Q In terms of successfully treating pelvic organ		
had really 492 1 good outcomes with really satisfied patients by and 2 large. 3 Q In terms of successfully treating pelvic		

5 patients over the last four or five years,		
have you		
6 been pleased with the outcomes in terms		
of treating		
7 their prolapse?		
8 A I have been. I have been happy with the		
results that		
9 I've seen going out even to five years after		
surgery.		
dm052314, (Pages 493:13 to 497:16)	Boston	Plaintiffs adopt and
493	Scientific has	incorporate their counter
13 Q Okay. In terms of Pinnacle went on	previously	designations, if any.
the market in	designated	designations, if any.
14 January of 2008.	this testimony	
•	and Plaintiffs	
15 When did you start performing Pinnacle		
	adopt and	
surgeries in terms of when Pinnacle went	incorporate	
on the	their	
17 market?	objections as	
18 A I performed the first Pinnacle	set forth in	
procedure.	their counter	
19 Q And so was that pretty soon after	designations,	
January of 2008?	if any.	
20 A It was during January of 2008.		
21 Q And you were asked some questions		
earlier about		
22 clinical trials.		
Were there any clinical trials		
24 specifically with Pinnacle prior to going		
to market		
494		
1 in January of 2008?		
2 A No, there were not.		
3 Q Why were you comfortable using		
Pinnacle in January of		
<u> </u>		
4 2008 in patients when there weren't clinical trials		
5 specifically with the device?		
6 A Because it's one of the important		
concepts that is		
7 sometimes lost in this debate, and that is		
what I		
8 have invented is an incremental		
improvement in the		
9 way we tack mesh down. It's a new		
hammer; it's a new		
10 screwdriver.		
11 Mesh and grafts in general have		
been		
12 used for many, many years to treat		
prolapse, and		
	· · · · · · · · · · · · · · · · · · ·	

there have been incremental changes throughout all of 14 that time period. There's been vast amounts of 15 research. In fact, there's far more research for the 16 vaginal approaches to mesh than the abdominal 17 approaches to mesh and, frankly, to the native tissue 18 repair approaches to mesh -- to prolapse repair. And so we -- in my mind and 19 what I **20** decided for my patients was that this was an incremental change in my tools. And 21 surgeons change their tools all the time. 22 23 The procedure is meshreinforced 24 prolapse repair, and the tools you use will evolve over time. 2 Q Had -- mesh-enforced prolapse repair, had that been done prior to Pinnacle coming on the 3 market? 4 A Yes. Mesh-reinforced prolapse repair has been a part of the armamentarium of urogynecologists for many years. 7 Q And has that also been true of polypropylene mesh-based prolapse repairs? 9 A Yes. Polypropylene has been, over the decade and 10 beyond -- the last decade and beyond, the most 11 commonly used graft. 12 Q You mentioned to the jury earlier that you use 13 different techniques in treating pelvic organ 14 prolapse; some native tissue, some abdominal 15 sacrocolpopexy, and then some transvaginal mesh. Is that right? 16

	1
17 A Yes.	
18 Q What is the benefit of having those	
different options	
in terms of treating your patients?	
20 A It's critical. It's critical because not	
every	
21 patient has the same need.	
_	
v 0 /9	
every	
orthopedist and every back surgeon,	
every heart	
24 surgeon, we have to make determinations	
about what's	
496	
1 best for this patient, is based on who	
that	
patient is and what her anatomy is like, as	
well,	
3 and what her wishes are.	
that's	
5 forgotten in all of this, is that these	
patients	
6 that's one of the reasons that led me to	
eventually	
7 write a paper on informed consent, is a lot	
of this	
8 is you know, patients come in, and	
they'll tell	
9 you what their goals are.	
10 And a lot of patients, their goal	
is	
11 "Look, my friend, my sister, my mother	
has had three	
failures of the surgery, so one thing I'm	
looking for	
is a durable procedure. What can you do	
to give me a	
14 durable procedure?"	
Or in my practice, many of the	
16 patients have already had failures of their	
prior	
surgeries, and they're coming to me with	
that in	
18 mind.	
Now, that's not true for	
everybody.	
different requests.	
21 And so it's really this joint	

decision, and you can only have that joint		
decision		
23 if you have multiple ways to fix prolapse.		
So every patient sees essentially		
that		
497		
1 slide that you had on the three different		
approaches,		
and every patient I go through what are		
inevitably		
3 the pros and the cons.		
4 You can't ever set this up as if		
there		
5 would be no cons to an approach because		
there's cons		
personal life,		
7 I try to avoid surgery if I can. And		
whether that's		
8 having a plate put in or a screw put in or		
having a		
9 native tissue hernia repair, whatever your		
surgery		
is, there are potential complications and		
there are		
11 potential failures and you balance that		
out.		
12 And every surgeon and every		
patient		
makes that decision individually in this		
joint		
14 process. Informed consent is a process.		
It's not a		
1 1 1		
signed.		
16 It's this process that you go through.	D 4	DI : (:00 I / I
dm052314, (Pages 498:23 to 499:18)	Boston	Plaintiffs adopt and
498	Scientific has	incorporate their counter
23 Q You were asked some questions about	previously	designations, if any.
polypropylene,	designated	
the material that's used both in the	this testimony	
Pinnacle device	and Plaintiffs	
499	adopt and	
1 in midurethral slings and in the Uphold	incorporate	
device.	their	
2 When Pinnacle came to market	objections as	
and	set forth in	
3 today, are you comfortable with	their counter	
polypropylene as the	designations,	
4 material that's used to make those	if any.	
meshes?	11 uiiy•	
HICSHCS :		l

5 A I'm comfortable with it based on the fact	
that there	
6 has been volumes of literature and a large	
world	
7 literature review of all the studies that	
have	
8 been published.	
9 And I've had long experience	
with it,	
10 and I you know, back in the beginning,	
I	
11 trusted Dr. Julian's long experience with	
it that	
12 came before my long experience with it.	
13 And as I saw my patients back, I	
14 became increasingly more comfortable	
with it. And as	
15 other surgeons were adopting it and	
continuing to	
16 perform mesh-reinforced prolapse	
repairs and they	
17 found that utilizing this fixation device	
helped them	
18 accomplish it, that increased my	
confidence in it.	

# 1. Objections to Counter Exhibits.

a. BSC has previously designated Miller 1037 and 1038. Plaintiffs adopt and incorporate their objections as set forth in their counter designations, if any.

## 2. Counter Exhibits to Counter Exhibits

a. Plaintiffs adopt and incorporate the exhibits designated in the counter designations for this witness.

DATED: July 20, 2015

Respectfully Submitted,

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## **CERTIFICATE OF SERVICE**

I hereby certify that on July 20, 2015, I electronically filed the foregoing document with the Clerk of the Court using the CM/ECF system which will send notification of such filing to the CM/ECF participants registered to receive service in this MDL.

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